

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

The invention relates to a circuit for producing potentially separated synchronization (sync) impulses from an alternating voltage network. In a voltage divider (R_1, R_2) for the switch input of a semiconductor switch (T_1)—which is applied to a rectified network voltage by means of a half-wave rectifier (D_1), the emitter diode (D_O)—of an optical fiber coupler (OKO)—is switched to the working circuit of the switch (T_1) which is serially connected with said emitter diode (D_O) and comprises a preresistor (R_3)—making it possible to periodically charge a storage capacitor (C_2)—which is dischargeable by the emitter diode (D_O). At least one transistor (T_2, T_3)—is connected downstream of the receiving element (E_O)—of the optical fiber coupler (OKO) which is powered by a voltage source (U_B)—galvanically separated from the network and whose substantially rectangular synchronization impulses ($sync$)—are provided in the working circuit.

| Fig.